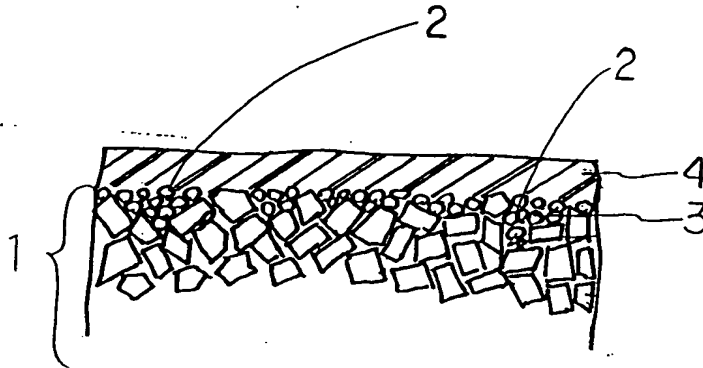


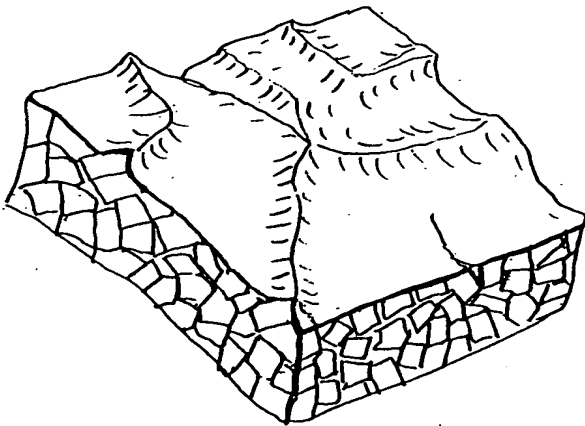
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【 Title of Document】 Drawings

【 Fig.1】

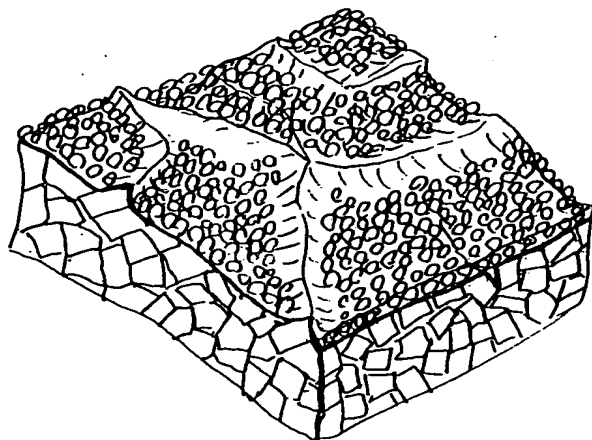


【 Fig.2】



- 1 Magnet
- 2 depression on the surface  
of the magnet 1
- 3 filling material
- 4 corrosion inhibiting coat

【 Fig.3】



【 Fig.4】

ROUGHNESS $R_a$ ( $\mu m$ )	1.2	1.8	2.3	2.7	3.6	4.4
THE AMOUNT OF CORROSION PRESENT	○	○	○	○	△	×

\* (SYMBOLS USED IN THE ABOVE CHART:

○ : NO CHANGE, △ : SOME SWELLING, × : RED RUSH PRESENT)

【 Fig.5】

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SAMPLE NAMES	MAGNETIC POWDER PARTICLE SIZE( $\mu$ m)	THE MASS OF EPOXY (MASS %)	BH <sub>max</sub> (kJ/m <sup>3</sup> )	SURFACE ROUGHNESS Ra ( $\mu$ m)	OCCURRENCE OF CORROSION *
SAMPLE (a)	10 or less	3.0	73.5	1.0	○
SAMPLE (b)	20 - 45	2.6	85.4	1.2	○
SAMPLE (c)	45 - 105	2.2	87.8	1.7	○
SAMPLE (d)	45 - 180	2.0	88.1	2.1	○
SAMPLE (e)	45 - 300	1.8	88.3	2.6	○
SAMPLE (f)	45 - 500	1.6	88.1	3.9	△

\* (SYMBOLS USED IN THE ABOVE CHART:

○ : NO CHANGE, △ : SOME SWELLING, × : RED RUSH PRESENT)

【 Fig.6】

SAMPLE NAMES	SiO <sub>2</sub> POWDER ( $\mu$ m)	SURFACE ROUGHNESS Ra ( $\mu$ m)	OCCURRENCE OF CORROSION *
SAMPLE (g)	0.05	3.4	△
SAMPLE (h)	0.1	2.7	○
SAMPLE (i)	0.5	1.8	○
SAMPLE (j)	2	1.3	○
SAMPLE (k)	10	1.7	○
SAMPLE (l)	15	2.5	○
SAMPLE (m)	20	3.8	×

\* (SYMBOLS USED IN THE ABOVE CHART:

○ : NO CHANGE, △ : SOME SWELLING, × : RED RUSH PRESENT)

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【 Fig.7】

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SAMPLE NAMES	MOLDING PRESSURE (GPa)	MAGNET DENSITY ( $\times 10^3 \text{ kg/m}^3$ )	$BH_{\text{max}}$ ( $\text{kJ/m}^3$ )	SURFACE ROUGHNESS $R_a$ ( $\mu \text{ m}$ )	OCCURRENCE OF CORROSION*
SAMPLE (n)	0.6	5.84	103	4.1	×
SAMPLE (o)	0.8	6.04	118	3.3	△
SAMPLE (p)	1.0	6.17	132	2.2	○
SAMPLE (q)	1.2	6.28	141	1.6	○
SAMPLE (r)	1.4	6.36	149	1.4	○
SAMPLE (s)	1.6	6.43	154	1.3	○

\* (SYMBOLS USED IN THE ABOVE CHART:

○ : NO CHANGE, △ : SOME SWELLING, × : RED RUSH PRESENT)

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